






LEGEND

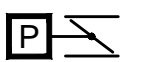
-  CHECK VALVE


 BUTTERFLY VALVE


 GATE VALVE



 CONTROL VALVE/RELIEF VALVE


 ELECTRIC/MOTOR-OPERATED BUTTERFLY VALVE


 PNEUMATIC OPERATED BUTTERFLY VALVE


 AIR RELEASE VALVE


 PRESSURE INDICATING GAUGE


 HYDRANT
-  PIPE REDUCER


 FLOW METER

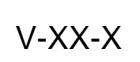
 SAMPLE POINT (GRAB)

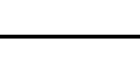
 CHLORINE FEED POINT (PRE- OR POST-)

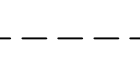
 FLUORIDE FEED POINT

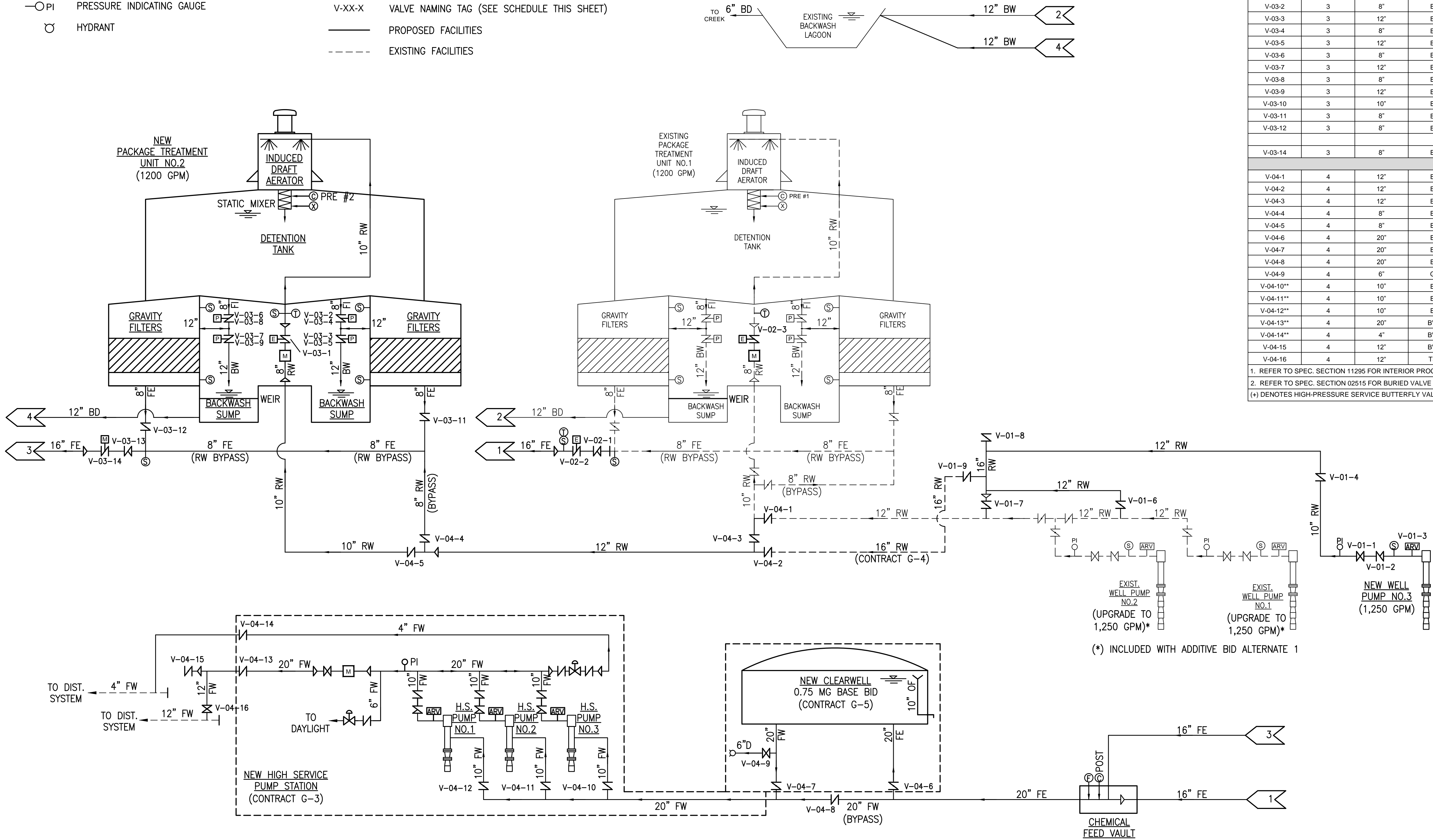
 FUTURE/SPARE FEED POINT

 TURBIDIMETER SAMPLE POINT

 VALVE NAMING TAG (SEE SCHEDULE THIS SHEET)

 PROPOSED FACILITIES

 EXISTING FACILITIES



VALVE LOCATION CODE	
1	WELLFIELD
2	EXISTING PLANT BUILDING
3	NEW PLANT BUILDING/TREATMENT UNIT
4	YARD PIPING @ WTP
VALVE TYPE	
GV	GATE VALVE
CV	CHECK VALVE
BV	BUTTERFLY VALVE
ARV	AIR RELEASE VALVE
TSV	TAPPING SLEEVE & VALVE
END TYPE	
FLG	FLANGED
MJ	MECHANICAL JOINT (RESTRAINED)
WF	WAFER
NPT	THREADED
OPERATOR TYPE	
A	HANDWHEEL
B	CHAINWHEEL
C1	SILENT
C2	DOUBLE DOOR
D	OPERATING NUT W/ EXT. STEM & VALVE BOX
P	PNEUMATIC W/ HANDWHEEL (OPEN/CLOSE)
E	ELECTRIC W/ HANDWHEEL (MODULATING)

WATER TREATMENT PLANT PROCESS FLOW DIAGRAM

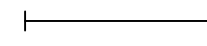
SCALE: NTS

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CONSTRUCTION COMPANY: Mitchell & Stark Const. Co., Inc.
DATE: FEBRUARY 2014

WTP PROCESS FLOW DIAGRAM
AND PROCESS VALVE SCHEDULE
HOOSIER HILLS REGIONAL WATER DISTRICT
CONTRACTS G-1 & G-5

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CLIENT CONTRACT NO. G-1/G-5		GRW PROJECT NO. 3235-04	
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APPROVED: DSW		M-00	